

Title (en)
SYSTEMS, COMPOSITIONS, AND METHODS FOR TARGET ENTITY DETECTION

Title (de)
SYSTEME, ZUSAMMENSETZUNGEN UND VERFAHREN ZUR ZIELEINHEITSDETEKTION

Title (fr)
SYSTÈMES, COMPOSITIONS, ET PROCÉDÉS POUR LA DÉTECTION D'ENTITÉS CIBLE

Publication
EP 3931351 A4 20220511 (EN)

Application
EP 20766432 A 20200228

Priority

- US 201962812878 P 20190301
- US 202062962722 P 20200117
- US 2020020529 W 20200228

Abstract (en)
[origin: WO2020180741A1] The present disclosure provides technologies for target entity detection. One aspect of the present disclosure provides technologies for detection (e.g., early detection) of a disease, disorder, or condition (e.g., cancer). In another aspect, technologies provided herein are useful for selecting and/or monitoring and/or evaluating efficacy of, a treatment administered to a subject in need thereof, e.g., a subject determined to have or susceptible to cancer. In some embodiments, technologies provided herein are useful for development of companion diagnostics, e.g., by measuring tumor burdens and changes in tumor burdens in conjunction with therapeutics.

IPC 8 full level
C12Q 1/6804 (2018.01); **C12Q 1/6816** (2018.01); **G01N 33/68** (2006.01)

CPC (source: EP KR US)
C12Q 1/6804 (2013.01 - EP US); **C12Q 1/6816** (2013.01 - EP KR US); **C12Q 1/6862** (2013.01 - US); **C12Q 1/6886** (2013.01 - KR US); **G01N 33/54306** (2013.01 - US); **G01N 33/574** (2013.01 - EP); **G01N 33/57484** (2013.01 - US); **G01N 33/57488** (2013.01 - EP); **G01N 33/6854** (2013.01 - EP); **C12Q 1/6886** (2013.01 - EP); **C12Q 2521/501** (2013.01 - KR); **C12Q 2545/101** (2013.01 - KR); **C12Q 2600/112** (2013.01 - KR US); **C12Q 2600/118** (2013.01 - KR US); **C12Q 2600/156** (2013.01 - US); **C12Q 2600/166** (2013.01 - US); **G01N 2030/027** (2013.01 - US)

C-Set (source: EP)
1. **C12Q 1/6816** + **C12Q 2521/501** + **C12Q 2537/143**
2. **C12Q 1/6804** + **C12Q 2531/113** + **C12Q 2533/107**

Citation (search report)

- [A] WO 2015175856 A1 20151119 - MESO SCALE TECHNOLOGIES LLC [US]
- [E] WO 2021146659 A1 20210722 - MERCY BIOANALYTICS INC [US]
- [A] LUNDBERG MARTIN ET AL: "Multiplexed homogeneous proximity ligation assays for high-throughput protein biomarker research in serological material", MOLECULAR AND CELLULAR PROTEOMICS, AMERICAN SOCIETY FOR BIOCHEMISTRY AND MOLECULAR BIOLOGY, INC, US, vol. 10, no. 4, 1 April 2011 (2011-04-01), pages 10pp, XP009157941, ISSN: 1535-9484, DOI: 10.1074/MCP.M110.004978
- [A] M. LUNDBERG ET AL: "Homogeneous antibody-based proximity extension assays provide sensitive and specific detection of low-abundant proteins in human blood", NUCLEIC ACIDS RESEARCH, vol. 39, no. 15, 6 June 2011 (2011-06-06), pages e102 - e102, XP055022762, ISSN: 0305-1048, DOI: 10.1093/nar/gkr424
- [A] LÖF LIZA ET AL: "Detecting individual extracellular vesicles using a multicolor in situ proximity ligation assay with flow cytometric readout", vol. 6, no. 1, 1 December 2016 (2016-12-01), XP055895170, Retrieved from the Internet <URL:https://www.nature.com/articles/srep34358.pdf> DOI: 10.1038/srep34358
- [A] TAVOOSIDANA G ET AL: "Multiple recognition assay reveals prostasomes as promising plasma biomarkers for prostate cancer", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, NATIONAL ACADEMY OF SCIENCES, vol. 108, no. 21, 24 May 2011 (2011-05-24), pages 8809 - 8814, XP002693689, ISSN: 0027-8424, [retrieved on 20110509], DOI: 10.1073/PNAS.1019330108
- See also references of WO 2020180741A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2020180741 A1 20200910; AU 2020233286 A1 20211014; AU 2020233286 B2 20221020; AU 2022241629 A1 20221027; CA 3129868 A1 20200910; CN 113748217 A 20211203; CN 113748217 B 20230825; EP 3931351 A1 20220105; EP 3931351 A4 20220511; EP 3931351 B1 20240911; EP 3998349 A2 20220518; EP 3998349 A3 20220824; JP 2022521781 A 20220412; JP 7344973 B2 20230914; KR 102599718 B1 20231109; KR 20210141952 A 20211123; SG 11202109423T A 20210929; US 11085089 B2 20210810; US 2020299780 A1 20200924; US 2021214806 A1 20210715; US 2022155304 A1 20220519

DOCDB simple family (application)
US 2020020529 W 20200228; AU 2020233286 A 20200228; AU 2022241629 A 20221003; CA 3129868 A 20200228; CN 202080017641 A 20200228; EP 20766432 A 20200228; EP 21201011 A 20200228; JP 2021549902 A 20200228; KR 20217031580 A 20200228; SG 11202109423T A 20200228; US 202016805637 A 20200228; US 202017435697 A 20200228; US 202117204773 A 20210317